Calculation of the Energy Levels of the Nuclei Tl 206 and Bi 210

8/048/59/023/012/009/009 B006/B060

To determine the pair interaction constants of dissimilar nucleons incomplete data are available; the author suggests a number of experimental investigations to yield missing data required for theory. The author thanks L. A. Sliv for supervision of the investigation, and G. V. Podgayskaya for assisting in the calculations. There are 4 tables and 4 references: 2 Soviet.

ASSOCIATION: Fiziko-tekhnicheskiy institut Akademii nauk SSSR (Physicotechnical Institute of the Academy of

Sciences USSR)

Card 4/4

SLIV, L.A.; KILARITONOV, Yu.I.

Calculation of the energy levels of T1²⁰⁶ and Bi²¹⁰ nuclei. Zhur.eksp.i teor.fiz. 37 no.4:1151-1153 0 159. (MIRA 13:5)

1. Leningradskiy fiziko-tekhnicheskiy institut Akademii nauk SSSR.

(Thallium-Isotopes) (Bismith--Isotopes)

BAYMAN, B.F.; KHARITONOV, Yu.I. [translator]; DOLGINOV, A.Z., red.

[Lectures on the application of the theory of groups to nuclear spectroscopy]Lektsii po primeneniiu teorii grupp v iadernoi spektroskopii. Moskva, Gos.izd-vo fiz.mat.lit-ry, 1961. 226 v. Translated from the English. (MIRA 16:1) (Groups, Theory of) (Spectrum, Atomic)

HER HANDELMANDELLANDSCHOLER ZE BERGERSCHOLEN EINE EINE ZUR EINE ZUR EINE FARMEN DER FARMEN DER FARMEN FOR FREIGH.

BAND, I.M.; SLIV, L.A.; KHARITONOV, Yu.I.

Correlation of the motion of four nucleons in a Po²¹² nucleus Zhur.eksp.i teor.fiz. 41 no.4:1274-1284 0 '61. (MIRA 14:10)

1. Leningradskiy fiziko-tekhnicheskiy institut AN SSSR. (Quantum theory) (Polonium)

15376 S/056/63/044/001/04 z/067 B102/B186

AUTHORS:

Sliv, L. A., Kharitonov, Yu. 1.

TITLE:

The level with the spin I=16 in the Po212 nucleus

PERIODICAL: Zhurnal eksperimental'nov i teoreticheskov fiziki, v. 44,

no. 1, 1963, 247 - 248

TEXT: The 2.93-Mev level of Po 212 with I > 16 and fa.45 sec (cf. e. g. Perlman et al. Phys. Rev. 127, 917, 1962) is investigated. The authors use parameters and formulas derived previously (ZhETF, 41, 1274, 1961) for calculating the diagonal matrix elements of nn, pp, and np interactions for O < J < 8 and O < I < 16. This is done for the 44+44 levels of the configurations $|j_n^2 8, j_p^2 J_1 I\rangle$ and $|j_n^2 J, j_p^2 8_1 I\rangle$ to which y-transitions may take place from the $|j_n^2 8, j_p^2 8_1 16\rangle$ level. The calculations show that among these 88 levels there are only two that lic below the level with I = 16, namely $|j_n^2\theta, j_p^20|\theta\rangle$ and $|j_n^2\theta, j_p^2\theta|\theta\rangle$. Fatrancitions to these levels are possible with 1-8 and 1, 345 sec (not observable); it is therefore probable that the Card 1/2

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The level with the spin ...

\$/056/63/044/001/043/067 B102/B186

level with I=16 deceme only one astronations. Due to position, binding energy and multipole order of levels with I > 16 it is concluded that I=16 is the only possibility for the Politim level investigated. There are 2 fig

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe Akademii nauk SSSR (Physicotechnical Institute imeni A. F. loffe of the Academy of Sciences USSR)

SUBMITTED: July 17, 1962

SLIV, L. A.; KHARITONOV, Yu. I.

"High-Lying Nuclear Isomeric States."

report submitted for All-Union Conf on Nuclear Spectroscopy, Tbilisi, 14-22 Feb 64.

FTI (Physico Technical Inst)

ACCESSION NR: AP4024058

B/0048/64/028/002/0315/0324

AUTHOR: Kharitonov, Yu.I.

TITLE: Neutron-proton interaction and the levels in odd-odd nuclei Report, Fourteenth Annual Conference on Nuclear E octroscopy held in Tbilisi 14-22 Feb 19647

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v.28, no.2, 1964, 315-324

TOPIC TAGS: neutron proton interaction, nucleon interaction, heavy odd-odd nucleus, Nordheim's rules, Brennan-Bernstein rules, residual interaction, configuration splitting, level assignment, level spectrum, bismuth 210, bismuth 212, bismuth 214

ABSTRACT: Most of the properties of the ground and low-lying states of even-even and cdd-A nuclei can now be satisfactorily explained or interpreted with the aid of different nuclear models. An outstanding exception to this is determination of the spins of low-lying levels in odd-odd nuclei. Thus, in 1951 L.W. Nordheim (Revs. Mod. Phys.23,322,1951) on the basis of the single-particle model formulated empirical rules predicting the spins of the ground states of odd-odd nuclei, but with accumulation of additional experimental data the number of exceptions to these rules increased greatly. In 1960, M.H. Brennan and A.M. Bernstein (Phys. Rev. 120, 927, 1960) on

Card 1/3

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ACCESSION NR: AP4024058

the basis of analysis of the spines of the ground states of nuclei with mass numbers from 20 to 120 replaced Nordheim's rules with "corrected" rules, but these new rules also have a number of exceptions, and, apparently, cannot be applied in the region of heavy elements, for the residual interaction between nucleons can, in general, depend on the total number of particles in the nucleus. Moreover, there are no suitable rules for predicting the spins of low-lying excited states. Accordingly, the purpose of the present work was to establish the character of the sequence of lowlying levels in heavy odd-odd nuclei on the basis of general considerations regarding the forces acting between neutrons and protons in the nucleus. The approach is based on consideration of the residual interaction of all the outer nucleons, moving in the central self-consistent field, and of the interaction of these nucleons with the nuclear core. Although in most calculations account is taken of both the diagonal and off-diagonal matrix elements of the interaction operators, evaluations show that consideration of only the diagonal splitting of the configurations is sufficient to bring out the distinctive characteristics of the spectrum of low-lying levels. The author considers configuration splitting under the influence of residual n-p interaction; this pairing interaction is characterized by two parameters vo and VI, the values of which are calculated for heavy nuclei. Specific calculations are

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. ACCESSION NR: AP4024058

carried out for Bi²¹⁰ and the results of the calculations are compared with the experimental level spectrum. The agreement for many levels is good. Further there are considered the level spectra of heavy odd-odd nuclei in the diagonal approximation and some tentative evaluations are made for Bi²¹² and Bi²¹⁴. It is concluded that the many exceptions to the empirical rules of Nordheim, and Brennan and Bernstein can be explained by the fact that in many cases pairing correlations and interaction between the outer nucleons and the nuclear core are significant. Hence at present it is pointless to seek a simple rule capable of predicting the spins of the ground and low-lying states of any odd-odd nucleus solely on the basis of the Nordheim number for the ground state configuration. "The author desires to express his deep gratitude to L.A.Sliv under whose guidance the work was carried out." Orig.art.

ASSOCIATION: Fiziko-tekhnicheskiy institut im.A.F. Ioffe Akademii nauk SSSR (Physico-technical Institute, Academy of Sciences, SSSR)

SUBMITTED: 100ct63

DATE ACQ: 08Apr64

ENCL: 00

SUB CODE: NS

NR REF SOV: 005

OTHER: 003

Card 3/3

ACCESSION NR: AP4019253

5/0056/64/046/002/0811/0813

AUTHOR: Sliv, L. A., Kharitonov, Yu. I.

TITLE: Residual np interaction in heavy nuclei and high isomer

SOURCE: Zhurnal eksper. i teor. fiz., v. 46, no. 2, 1964, 811-813

TOPIC TAGS: np interaction, heavy nucleus, isomer state, high lying isomer state, transuranium element

ABSTRACT: In view of the large number of nuclear phenomena in which a vital part is played by residual np interaction between the nucleons of the overfilled neutron and proton shells, and analysis is made of the matrix elements of the np forces in such interactions, for various neutron and proton configurations. It is found that isomeric levels caused by np forces can be both low and high lying with respect to the ground state, and that high lying isomeric states

Card 1/3 32 1 177 - 1 10

ACCESSION NR: AP4019253

must occur fairly frequently. Isomerism in the transuranium element region is also examined. Special interest attaches to observation of isomeric levels in nuclei with short-lived ground states, since the determination of their lifetimes and the establishment of such levels adds information on the character of np interactions in nuclei. Orig. art. has: I figure and I table.

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe AN SSSR (Physicotechnical Institute AN SSSR)

SUBMITTED: 11Ju163

DATE ACQ: 27Mar64

ENCL: 01

SUB CODE: PH

NO REF SOV: 003

OTHER: 000

Card 2/3.

SLIV, L.A.; KHARITONOV, Yu.I.

Igospin in heavy nuclei. IAd. fiz. 1 no.6:1129-1131 Je '65.

(MIRA 18:6)

1. Fiziko-tekhnicheskiy institut imeni Ioffe AN SSSR.

PEKER, L.K.; KHARITONOV, Yu.I.

Three-particle isomeric states with a small spin. Izv. AN SESR. Ser.fiz. 30 no.1:144-147 Ja 166.

(MIRA 19:1)

1. Fiziko-tekhnicheskiy institut im. A.F. Ioffe AN SSSR i Leningradskiy gosudarstvennyy universitet.

"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000721820007-4

L 27606-66 ENT(m)

ACC NR: AF6018485 SOURCE CODE: UR/0367/65/001/006/1129/1131

AUTHOR: Sliv, L. A.; Kharitonov, Yu. I.

ORG: Physico-Technical Institute im. A. F. Ioffe, AN SSSR (Fiziko-tekinicheskiy B institut AN SSSR)

TITIE: Isospin in heavy nuclei

SOURCE: Yadernaya fizika, v. 1, no. 6, 1965, 1129-1131

TOPIC TAGS: heavy nucleus, Coulomb interaction, quantum number, nuclear spin, light nucleus, cadmium, nucleon, nuclear resonance

ABSTRACT: Whether or not it is possible to ascribe definite values of the isospin T to states of heavy rulei has become of current importance in connection with the observation of analog states. Reasons have been given that the isospin T may be a good quantum number for large values of the nuclear charge Z. But it is of interest to find the fraction of the mixture of states with other T in the lowest value of the isospin To for the ground state, using the most realistic model of the nucleus and accurate approximations for the effect of Coulomb interaction.

The paper gives a formula for the Coulomb potential of a particle in a field of Z particles. The Coulomb part of the potential results in an admixture of states with other T; or, more exactly, only the variable part of the Coulomb potential mixes states with different T. Accordingly, in the potential for the Coulomb 1/3

ACC NRI AP6018485 perturbation in T it is necessary to include only the term proportional to r₁². The resulting potential gives single-particle transitions to states with the same spins j and the same parity but with different radical quantum numbers n, in which the isospin T of the nucleus may change by unity. A

formula is given for the fraction P of admixture of states with other T. dependence of the fraction P on Z is expressed principally in the sum of n

terms in the formula for P, in which n increases with Z.

For light nuclei up to Z=20(Ca⁴⁰), for which $T_0 = 0$, the admixture fraction P increases with Z. The admixture of other T would increase approximately linearly if the isospin To remained equal to zero. Then, for nuclei heavier than Ca40, use of the isospin as a quantum number would cease to have meaning. But for stable nuclei after Ca40 (actually the Ca40 nucleus does not lie on the stability curve) the isospin To is greater than zero and increases with increase in A. In other words, the admixture fraction P remains approximately the same for all stable nucleis i.e., 1-2%. This result may also be extended to all the low excited states of the nuclei.

The purity of the isospin T in heavy nuclei may be verified experimentally from the familiar selection rules. Thus, the Fermi β -transition 0+ + 0+ which is permitted in the ordinary spin will be forbidden in the isospin. Nuclear charge exchange reactions A(p,n)B, which go through resonance states of the compound nucleus, will be forbidden in T.

The ground state corresponds to a potential well with the minimum value To = 4(N - Z). Excited states of the well correspond to higher values

L 27606-66

		nd are easily Birbrair fo	on states in observed ex					re	
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EWT(m)/EWP(t)/ETI ACC NR; AP7001029 IJP(c) SOURCE CODE: UR/0048/66/030/001/0144/014 AUTHOR: Peker, L. K. and Kharitonov, Yu. T. ORG: [Peker] Leningrad State University (Leningradskiy gosudarst vennyy universitet); [Kharifonov] Physicotechnical institute im. A. F. Ioffe AN SSSR (Fiziko-tekhnicheskiy TITLE: Three-particle isomeric states with small spin 7 Paper presented at the 2nd All-Union Symposium on the Physics of Thin Ferromagnetic Films; Irkutsk, 10-15 July Izvestiya Akadomii Nauk SSSR, Seriya Fizichoskaiya (Bulletin of the Academy of Sciences USSR: Physics Series), Vol 30, No 1, Jan 1966, pp 144-147 Abstract: Silvola et al. (J. Nucl. Phys., Vol 52, p. 449 1964) showed the existence of a long-lived alpha-radioactive isomeric state in 83Bi118 with small spin. Due to the similarity in decay characteristics of Bi201 to Bil95-203 one may suppose that the latter also have small spin. Experimentally it was observed that the ground states of Bil99-209 are 9/2, and no spin of 1/2 exists for the lowest single-particle proton levels. Consequently, the observed isomeric levels with spin 1/2 must be from multiploparticle states. The energy of the level indicates that not more than 3 particles are involved, and it is improbable that all are nucleons and/or protons. Considerations involved in the problem are discussed in detail. The authors thank L. A. Sliv for useful discussions. Orig. art. has: 4 figures, 2 formulas and 1 table. [JPRS: 35,435] Card 1/2

L 071511-67
ACC NR, APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721820007

TOPIC TAGS: bismuth, radioactive decay, isomer, alpha radiation

SUB CODE: 18 / SURM DATE: none / ORIG REF: 004 / OTH REF: 003

SHILIN, A.N., kand.tekhn.nauk; KHARITONOV, Yu.M., gornyy inzhener

Means of development of the Gay deposit. Gor.Zhur. no.5:19-22

My '60. (MIRA 14:3)

1. Unipromed', Sverdlovsk. (Orenburg Province—Strip mining)

ACC NR: AP6034244 (N) SOURCE CODE:

SOURCE CODE: UR/0120/66/000/005/0227/0228

AUTHOR: Kharitonov, Yu. N.

ORG: Kalinin State Pedagogical Institute (Kalininskiy gosudarstvennyy pedagogicheskiy institut)

TITLE: Pulse integration over length distribution

SOURCE: Pribory i tekhnika eksperimenta, no. 5, 1966, 227-228

TOPIC TAGS: pulse integrator, pulse shaper, pulse analyzer

ABSTRACT: A pulse width discriminator which can be set to pass only pulses having a shorter duration than a desired value is described. The circuit is used to obtain an integral distribution of the magnetic moments of Barkhausen jumps in relation to their duration. This vacuum tube circuit has a cathode follower as the input stage. An RC integrating circuit is used to integrate the pulse. The output of the cathode follower also drives a version of Schmitt trigger which, in turn, provides pulses of fixed amplitude and duractions equal to the durations of the input pulses. The Schmitt trigger output initially drives a switching tube across the capacitor of the integrating circuit into cut-off. This tube is normally fully conducting. At the end of the input pulse, the tube is turned on again and thus discharges the integrating capacitor. The integrated output pulses appear across the cathode resistor of the switching tube.

UDC: 681.142.334

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ACC NR:	AP6034244 *			
tially tur time inter purposes. pulse; it ger signal charge the cuit is su expresses	circuit is used for pulse width discrimination. This circuit consists itching tube, also connected across the integrating capacitor, that is med off, then turned on to discharge the capacitor after a predeterminal. A sawtooth generator is utilized to generate ramp signal for the start of each ramp is synchronized with the leading edge of the turns on a trigger tube when it reaches a preset amplitude value. The is shaped and used to turn on the second switching tube, and thus to e integrating capacitor prior to the termination of the input pulse. Witable for use with pulses of 0.05 to 10 microseconds duration. The his gratitude to V. M. Rudyak for his valuable advice during the execork and the discussion of the results. Orig. art. has: 2 figures.	s ini- ined iming input e trig- o dis-		·
SUB CODE:	· · · · · · · · · · · · · · · · · · ·			
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ACC NR. AP7001965 SOURCE CODE: UR/0120/66/000/006/0206/0206 AUTHOR: Kharitonov, Yu. N. ORG: Kalinin State Pedagogical Institute (Kalininskiy gosudarstvennyy pedagogicheskiy institut) TITLE: Sensitive indicator of magnetic-field variation based on the Barkhausen effect SOURCE: Pribory i tekhnika eksperimenta, no. 6, 1966, 206 TOPIC TAGS: magnetic field measurement, magnetic field strength & ABSTRACT: A ferromagnetic specimen placed inside a solenoid (see Fig. 1) is magnetized to saturation, and then the field is gradually reduced to a value at which the Barkhausen Fig. 1. Weak-magnetic-field detector Усияц-1 - battery; 2 - potentiometer; 3 - magnetizing coil; 4 - solenoid with specimen; 5 - amplifier; 6 - scaler. jumps occur most clearly. At this point, the instrument is capable of detecting an external magnetic field as low as 10⁻⁵ oe oriented along the axis of the solenoid or a small change in the original magnetic field. An opposing external field can be also detected by providing a second set of magnetizing coil and solenoid. Orig. art. has: SUB CODE: 09, 20/ SUBM DATE: 21Jan66/ ORIG REF: 002/ OTH REF: 001/ ATD PRESS:5110 Card 1/1 UDC: 621.317.445

KHARITONOV, Yu.N.

X-ray diagnosis of chronic pyelonephritis. Trudy Kish. gos. med. inst. 24:171-179 '64 (MIRA 18:1)

1. Urologicheskaya klinika (zav. - chlen-korrespondent AMN SSSR prof. A. Ys. Pytel*) 2-go Moskovskogo meditsinskogo instituta imeni N.I. Pirogova).

LUVISHIS, L. A., starshiy nauchnyy sotrudnik; KOVALEVA, N. S., starshiy nauchnyy sotrudnik; KALININ, I. A., starshiy nauchnyy sotrudnik; KHARITONOV, Yu. P., mladshiy nauchnyy sotrudnik

Laboratory fire-testing method of fabrics. Tekst. prom. 21 no.10:76-78 0 '61. (MIRA 14:10)

1. TSentral'nyy nauchno-issledovatel'skiy institut sherstyanoy promyshlennosti.

(Clothing, Protective)

(Fire-testing)

ANTUF YEV, V.V. [deceased]; VASIL'YEV, Ya.V.; VOTINOV, M.P.; KHARITONOVA, O.K.; KHARITONOV, Ye.V.

Electron paramagnetic resonance in the system titanium-oxygen.

Fiz. tver. tela 4 no.6:1496-1499 Je '62. (MIRA 16:5)

(Paramagnetic resonance and relaxation) (Titanium oxides)

\$\078\60\005\06\03\030

5.2620

AUTHORS: Babayeva, A. V., Kharitonov, Yu. Ya.

TITLE:

Infrared Absorption Spectra of Polycrystals of Nitrohalides

of Bivalent Platinum in the Range of the NaCl Prism

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1960, Vol. 5, No. 6,

pp. 1196 - 1207

TEXT: By way of introduction; the authors offer a detailed survey of research work concerning the infrared spectra of the complex compounds of Co^{III}, Ni^{II}, Pt^{II}, and Pd^{II} (Refs. 1-14). Here, they investigated the infrared spectra of complex compounds of the type K₂[PtX_n(NO₂)_{4-n}], where X = Cl, Br, I, n = 0, 1, 2, 3. Since there occurred no absorption bands (due to vibrations of heavy Cl, Br-, and I-atoms) in the infrared region in vestigated, and since moreover no considerable interactions were to be expected between X and NO2, the authors assumed that the infrared spectra

of platinum nitrohalides in the region 2 - 15 μ would represent the

Card 1/4

Infrared Absorption Spectra of Polycrystals of S/078/60/005/06/03/030 Nitrohalides of Bivalent Platinum in the Range B004/B014

spectrum of the coordinated NO₂ group. They investigated the compounds $K_2[PtCl_3NO_2]$ (I), $cis K_2[PtCl_2(NO_2)_2]$ (II), $K_2[PtCl_1(NO_2)_3]$ (III), cis Manda Andal Andal

Infrared Absorption Spectra of Polycrystals of S/078/60/005/06/03/030 Nitrohalides of Bivalent Platinum in the Range B004/B014

 $V_{as}(N0)$ are in the region 1360 - 1440 cm⁻¹. The other frequencies found in the spectra are indicated as follows: the wagging oscillations $(-N0_2)$ in the region 640 - 650 cm⁻¹ (Fig. 2) in accordance with Ref. 13; furthermore, the two combination frequencies (not observed as yet) in the region 1100 - 1200 cm⁻¹ (Fig. 3), which are defined as harmonic vibrations $25(-N0_2)$. In the region 2570 - 2710 cm⁻¹ a doublet band (Fig. 4) defined as $2V_8(N0)$, and in the region 2680 - 2710 cm⁻¹ a band defined as $2V_8(N0)$. These definitions are confirmed by a comparison with the spectra of $C_0 = 1$, and $C_0 = 1$, and $C_0 = 1$ introcomplexes (Table 2). The influence of the structure factor upon the infrared spectrum is shown in Table 3. A change in the state of the $C_0 = 1$ cm⁻¹ in the sequence $C_0 = 1$ cm⁻¹ in the state of the $C_0 = 1$ cm⁻¹ in the sequence $C_0 = 1$ cm⁻¹ in the state of the $C_0 = 1$ cm⁻¹ in the sequence $C_0 = 1$ cm⁻¹ in the state of the $C_0 = 1$ cm⁻¹ in the sequence $C_0 = 1$ cm⁻¹ in the state of the $C_0 = 1$ cm⁻¹ in the sequence $C_0 = 1$ cm⁻¹ in the s

Infrared Absorption Spectra of Polycrystals of S/078/60/005/06/03/030 Nitrohalides of Bivalent Platinum in the Range B004/B014 of the NaCl Prism

spectra of trans- $K_2[PtY_2(NO_2)_2]$ (Y = NO_2 , Br, I). In the case of nitrochlorides $K_2[Pt(NO_2)_nCl_{4mn}]$, n = 1 to 4, the frequency of the nitro group in the region 650 = 650 cm is chiefly dependent on the ligand Z (Z = Cl_1 , NO_2) in the direction of the coordinate Z = Pt = NO_2 . There are 4 figures, 3 tables, and 28 references: 5 Soviet, 5 American, 10 British, 1 Swedish, 4 German, and 3 French.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii im.

N. S. Kurnakova Akademii nauk SSSR (Institute of General and Inorganic Chemistry imeni N. S. Kurnakov of the Academy of Sciences, USSR)

SUBMITTED: September 1, 1959

Card 4/4

BABAYEVA, A.V.; KHARITONOV, Yu.Ya.; NOVOZHENYUK, Z.M.

Infrared absorption spectra of complex compounds of iridium (III) with an inner-sphere sulfito group. Zhur.neorg.khim. 6 no.10: 2263-2280 0 '61. (HIRA 14:9)

1. Institut obshchey i neorganicheskoy khimii imeni N.S.Kurnakova Akademii nauk SSSR.

(Iridium compounds--Spectra)

BABAYEVA, A.V.; KHARITONOV, Yu.Ya.; NOVOZHENYUK, Z.M.

Infrared absorption spectra of complex compounds of platinum (II) with an inner-sphere sulfito group. Zhur.neorg.khim. & no.10: 2281-2287 0 61. (MIRA 14:9)

1. Institut obshchey i neorganicheskoy khimii imeni N.S.Kurnakova Akademii nauk SSSR.
(Platinum compounds--Spectra)

KHARITONOV, Yu.Ya.

Infrared absorption spectra of (NHy)2SO3. Zhur.neorg.khim. 6 no.11:2601-2602 '61. (MIRA 14:10)

1. Institut obshchey i neorganicheskoy khimii imeni N.S.Kurmakova AN SSSR.

(Ammonium sulfite-Spectra)

KORYAZHKIN, V.A.; TATEVSKIY, V.M.; KHARITONOV, Yu.Ya.

Ultraviolet absorption spectra of lithium fluoride and lithium bromide vapors. Vest. Mosk. un. Ser. 2: Khim. 16 no.1:48-50 Ja-F '61. (MIRA 14:4)

1. Laboratoriya molekulyarnoy spektroskopii Moskovskogo universiteta.
(Lithium fluoride—Spectra) (Lithium bromide—Spectra)

SLIV, L.A.; SOGOMONOVA, G.A.; KHARITONOV, Yu.I.

Pairing forces and pair correlations in Tl206 and Bi²¹⁰ nuclei.

Zhur.eksp.i teor.fiz. 40 no.3:946-953 Mr '61. (MIRA 14:8)

1. Leningradskiy fiziko-tekhnicheskiy institut Akademii nauk SSSR. (Nuclei, Atomic) (Thallium—Isotopes) (Bismuth—Isotopes)

KHARITONOV, Yu.Ya.; NI TSZYA-TSZAN' [Ni Chia-tsan]; BABAYEVA, A.V.

Structure of "anomalous" aminonitrile complex compounds of bivalent platinum. Dokl. AN SSSR 141 no.3:645-648 N '61. (MIRA 14:11)

1. Institut obshchey i neorganicheskoy khimii im. N.S. Kurnakova AN SSSR. Predstavleno akademikom I.I. Chernyayevym.

(Platimum compounds)

(Amines)

35589

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AUTHORS:

Kharitonov, Yu. Ya., and Buslayev, Yu. A.

TITLE:

Infrared absorption spectra of exofluorides of some metals of the fourth and fifth group of the periodic system

PERIODICAL:

Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh

nauk, no. 3, 1962, 393-401

TEXT: The character of the metal-oxygen bonds in solid oxo-fluorides of titanium, zirconium, hafnium and vanadium was investigated on the following compounds: $\text{TiOF}_2 \cdot \text{H}_2\text{O}$, $\text{VOF}_2 \cdot \text{H}_2\text{O}$, $\text{KNbOF}_5 \cdot \text{H}_2\text{O}$, ZrO_2 , $\text{Zr}_4\text{F}_{10}(\text{OH})_6 \cdot \text{3H}_2\text{O}$, $\text{Zr}_4\text{F}_{10}(\text{OH})_6 \cdot \text{H}_2\text{O}$, $\text{Zr}_4\text{F}_{10}^{\text{O}}_3$, $\text{ZrF}_4 \cdot \text{3H}_2\text{O}$, $\text{ZrF}_4 \cdot \text{H}_2\text{O}$, $\text{Zr}_4\text{F}_{12}^{\text{O}}_2$, $\text{KZrOF}_2 \cdot \text{2H}_2\text{O}$, $\text{Hf}_4\text{F}_{12}^{\text{O}}_2$, $\text{HfF}_4 \cdot \text{H}_2\text{O}$, $\text{HfF}_4 \cdot \text{Hf}_2\text{O}$, HfF_4

Infrared absorption spectra of ...

S/062/62/000/003/004/014 B110/B101

 \sim 750-950 cm⁻¹ of TiOF₂·H₂O was characteristic of the bond Ti-O-Ti-O-Ti-, and was also present in TiOSO₄·H₂O. As a wide band is maintained for anhydrous TiOF₂ between \sim 750-950 cm⁻¹, the following structure can be assumed.

Since the frequency of the stretching vibrations is <950 cm⁻¹, the Ti-0 bond is a double one. A TiO bond is also proved by the small TiO distance (1.78 Å) in the crystal lattice of $\left[\text{TiCl}_2(\text{C}_2\text{H}_5)\right]_2\text{O}$, which corresponds to the TiO distance (1.80 Å) in the crystal lattice of $\text{TiGeO}_4\cdot\text{H}_2\text{O}$. For $\text{VOF}_2\cdot\text{2H}_2\text{O}$, two effects, corresponding to the loss of the two water

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Infrared absorption spectra of ...

molecules, exist in the thermograph. An intensive narrow band (1001 cm⁻¹) proves the stretching vibrations of the V=0 bond. As the force constant of the V0 band is 7.2 mdyne/Å, a multiple bond exists. The frequencies at 459 and 517 cm⁻¹ correspond to VF bonds, those of \sim 3163, 3331 and 3500 cm⁻¹ to the stretching vibrations in the water molecules. The Nb0F₅² ion contained in the crystal lattice of K₂Nb0F₅·H₂O is presumably of octahedral structure, with the Nb atom in the center. An intensive narrow absorption band at 928 cm⁻¹ corresponds to the Nb0-bond, the intensive band at 1630 cm⁻¹ to the δ (H₂O). A multiple (> 2) bond in the NbO is also proved by the force constant of 6.9 mdyne/Å. Since in the monoclinic zirconium dioxide each Zr-atom is surrounded by seven O-atoms and the length of the ZrO bond is 2.04-2.26 Å, no double bond exists, but

Card $\frac{0}{2r}$ = 0 = $\frac{0}{2r}$ = 0. During thermal dehydration, $2r_4F_{10}(OH)_6 \cdot 3H_2O$ (I)

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Infrared absorption spectra of ...

loses two H₂O molecules \longrightarrow Zr₄F₁₀(OH)₆·H₂O (II), which again loses water \longrightarrow Zr₄F₁₀O₃ (III). Tetramers are presumed, and no ZrO double bonds in I. In II (~875-975 cm⁻¹) and III (~877 cm⁻¹), Zr=O double bond presumably exists. The force constants of Zr=O in III are 6.2 mdyne/Å. When heating ZrF₄·3H₂O (IV), water is separated and ZrF₄·H₂O (V) and then Zr₄F₁₄O (VI) are formed. In air ZrF₁₄O hydrolyzes to Zr₄OF₂ (VII). Dehydration of HZrF₅·4H₂O produces HZrF₅·4H₂O \longrightarrow (V) \longrightarrow (VI) \longrightarrow (VII). O₃F₃Zr \longrightarrow ZrF₃O₃ exists in the crystal lattice of IV. No ZrO double bond

exists, only for VII (864 cm⁻¹) there exists the zirconyl group. The force constant of the ZrO bond is here 6.0 mdyne/Å. KZrOF₃·2H₂O has the ZrO . double bond (absorption band at 833 cm⁻¹), force constant 5.6 mdyne/Å. The thermal decomposition of $[Hf_4F_{12}(OH)_4\cdot 3H_2O]\cdot 2H_2O$ goes over to $Hf_4F_{12}O_2$ due

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VIII \longrightarrow HfF₄·H₂O (IX) \longrightarrow Hf₄F₁₄O (X) \longrightarrow HfOF₂ (XI). X and XI have absorption maxima at 896 and 894 cm⁻¹. As the force constants are 6.9 mdyne/A, the HfO group is maintained during the X \longrightarrow XI transition. The stability of the MO bonds in oxofluorides increases:

Ti(4+) < Zr(4+) < Hf(4+). The increased strength of the MO bond can be explained in terms of the theory of multiple bonds by M. Ye. Dyatkina et al. ((Zh. neorgan. khimii, <u>6</u>, 575 (1961)). There are 4 figures and 2 tables. The most important reference to English-language publications is: C. G. Barraclough et al. J. Chem. Soc. <u>1959</u>, 3552.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii im.

N. S. Kurnakova Akademii nauk SSSR (Institute of General and Inorganic Chemistry imeni N. S. Kurnakov of the

Academy of Sciences USSR)

SUBMITTED:

October 14, 1961

Card 5/5

S/062/62/000/003/005/014 B110/B101

AUTHORS:

Kharitonov, Yu. Ya., and Rozanov, I. A.

TITLE:

Infrared absorption spectra of zirconium thiocyanate

complexes

PERIODICAL:

Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh

nauk, no. 3, 1962, 402-407

TEXT: In order to clarify the structure of zirconium thiocyanate complexes $M[ZrO(NCS)_3H_2O] \cdot H_2O$, their infrared absorption spectra (400-4000 cm⁻¹) as well as those of $(PyH)_2[Zr(NCS)_6] \cdot 2H_2O$ (Py = pyridine) and $ZrOCl_2 \cdot 8H_2O$ were studied in the solid state. Spectra of $ZrO(NCS)_2 \cdot MNCS \cdot 2H_2O$ and of the same complex with only one water molecule were obtained for $M = NH_4$, K, Rb, Cs, or PyH. The spectra of these compounds were very similar. The bands at 1600-1609 cm⁻¹ $[\delta H_2O]$ and $\sim 2700-3600$ cm⁻¹ $[\nu(OH)]$ correspond to water. The considerable widening and shift of the $\nu(OH)$ bands for $ZrO(NCS)_2 \cdot MNCS \cdot 2H_2O$ Card 1/3

Infrared absorption spectra of ...

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and $\operatorname{ZroCl}_2 \cdot 8\operatorname{H}_2 0$ is caused by hydrogen bonds. Since the $b(\operatorname{H}_2 0)$ line does not disappear even after the loss of one $\operatorname{H}_2 0$ molecule, no hydroxyl-, but a zirconyl group is present. The bands at ~ 500 . 831-836, 2047-2086 cm⁻¹ correspond to the deformation vibrations of the NCS group, the stretching vibrations of the SO- and CN bonds. The stretching vibrations at 831-836 cm⁻¹ prove the bond of the thiocyanogen group over the nitrogen atom with the Zr, those at $\sim 2130-2180$ cm⁻¹ prove that the thiocyanogen group does not form a bridge. The $\nu(\operatorname{CN})$ frequency (2047-2086 cm⁻¹) shows that the CN bond is almost a triple bond. The high frequency of the SC bonds (831-836 cm⁻¹) proves their high strength. Thus, a compensation between the CN- (>2, <3) and SC bonds (>1) takes place, as in the case of trivalent cobalt. The bands at 913-927 cm⁻¹ are caused by stretching vibrations of the ZrO bond. Thus, $\operatorname{ZrO}(\operatorname{NCS})_2 \cdot \operatorname{MNCS} \cdot 2\operatorname{H}_2 0$ contains ZrO and thiocyanogen groups bonded to Zr over the nitrogen atom, as well as hydrogen bonds. The compound $\operatorname{ZrOCl}_2 \cdot \operatorname{8H}_2 0$ does not contain zirconyl groups.

Card 2/3

S/062/62/000/003/005/014 B110/B101

Infrared absorption spectra of ...

There are 3 figures and 1 table. The most important reference to English-language publications is: G. C. Pimentel, A. L. McClellan, The Hydrogen Bond, San Francisco - London, W. H. Freeman and Co., 1960.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii im. N. S. Kurnakova

Akademii nauk SSSR (Institute of General and Inorganic Chemistry imeni N. S. Kurnakov of the Academy of Sciences

USSR)

SUBMITTED:

October 7, 1961

Card 3/3

MAL'TSEVA, N.N.; KHARITONOV, Yugya.

Infrared absorption spectra of magnesium hydride. Zhur.neorg.khim. 7 no.41947-948 Ap 162. (MIRA 15:4)

1. Institut obshchey i neorganicheskoy khimii im. N.S.Kurnakova AN SSSR.

(Magnesium hydrides--Spectra)

KHARITOHOV, Yu.Ya.; NI TSZYA-TSZYAN' [Ni Chia-chiang]; BABAYEVA, A.V.

Infrared absorption spectra and structure of "anomalous" ammonium nitrile complex compounds of bivalent platinum. Zhur.neorg.khim. 7 no.5:997-1008 My '62. (MIRA 15:7)

1. Institut obshchey i neorganicheskoy khimii imeni N.S.Kurnakova Akademii nauk SSSR.

(Platinum compounds-Spectra) (Ammonium cyanide)

BABAYEVA, A.V.; KHARITONOV, Yu.Ya.; BARANOVSKIY, I.B.

Infrared absorption spectra of cobalt (III) complex compounds with an inner sphere sulfito group. Zhur.neorg.khim. 7 no.6: 1247-1257 Je '62. (MIRA 15:6)

1. Institut obshchey i neorganicheskoy khimii imeni N.S.Kurnakova AN SSSR.

(Cobalt compounds--Spectra)

BABAYEVA, A.V.: KHARITONOV, Yu.Ya.; SHENDERETSKAYA, Ye.V.

Infrared absorption spectra of rhodium (III) complex compounds with an inner-sphere sulfito group. Zhur.neorg.khim. 7 no.7:1530-1537 Jl '62. (MIRA 16:3)

1. Institut obshchey i neorganicheskoy khimii imeni N.S.Kurnakova AN SSSR. (Rhodium compounds-Spectra)

42648

5/062/62/000/011/003/021 B101/B144

11.1180

AUTHOR:

Kharitonov, Yu. Ya.

TITLE:

Empirical relations between force constants, lengths and frequencies of the stretching vibrations of nitrogen-oxygen

bonds

PERIODICAL:

Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh nauk, no. 11, 1962, 1953 - 1953

TEXT: The following empirical relations are derived from the data for r_{NO} (\$\hat{A}\$), k_{NO} (mdyne/\$\hat{A}\$), v_{NO} (cm⁻¹), which are given in publications for NO, NO⁺, NO₂, N₂O₄, HNO, N₂O, NO⁺, NOC1, NOBr, NO⁻₂, N₂O²₂, NH₂OH, CH₃NO₂, ClNO₂, FNO₂, HO-NO₂, CCl₃-NO₂, k_2 [PtCl₃(NO₂)₃]:-(1) For 1.06 \leq $r_{NO} \leq$ 1.22 and $9 \leq k_{NO} \leq$ 25:- r_{NO} = 1.30₉ - 0.01₀ k_{NO} ; k_{NO} = 1.30₉ - 100 r_{NO} . (2) For 1.20 \leq $r_{NO} \leq$ 1.45 and 4.3 \leq $r_{NO} \leq$ 11:- r_{NO} = 5.26₇/ r_{NO} + 1.15₇; r_{NO} = 2.2₉/ r_{NO} - 1.15₇) (3) For 1.36 \leq $r_{NO} \leq$ 1.48 and 4 \leq $r_{NO} \leq$ 5:- Card 1/3

S/062/62/000/011/003/021 B101/B144

Empirical relations between force...

 $r_{NO} = 1.99_7 - 0.12_9 k_{NO}$; $k_{NO} = 15.4_8 - 7.7_5 r_{NO}$. For nitro groups: (4) $v_{as}(NO) = 19630 - 14930 r_{NO}$; $r_{NO} = 1.31_5 - 0.67 \cdot 10^{-4} v_{as}(NO)$, and (5) $[v_s(NO) + v_{as}(NO)]/2 = 11420 - 8290 r_{NO}$; $r_{NO} = 1.37_7 - 1.21 \cdot 10^{-4} [v_s(NO)]/2$. The data published for NO_3^* ion were not used because of too marked discrepancies. A vibrating two-mass model consisting of NH_2 and OH_3 groups was assumed for calculating k_{NO} for NH_2OH . The correctness of this assumption was confirmed by the fact that the calculation of v for ND_2OD from v for NH_2OH by this two-mass model yielded values that agreed closely with the data given by R. E. Nightingale and F. L. Wagner (J. Chem. Phys., 22, 203 (1954)). The difference between the calculated and the experimental r_{NO} data does not exceed t 0.02 R. There are 2 figures and 2 tables. The most important English-language references are: H. W. Brown, G. C. Pimentel, J. Chem. Phys., 29, 883 (1958); N. B. H. Jonathan, J. Molecular Spectroscopy, 4, 75 (1960).

Card 2/3

Empirical relations between force...

S/062/62/000/011/003/021 B101/B144

ASSOCIATION: Institut obshchey i neorganicheskoy khimii im. N. S. Kurnakova Akademii nauk SSSR (Institute of General and Inorganic Chemistry imeni N. S. Kurnakov of the Academy of Sciences USSR)

SUBMITTED:

March 24, 1962

Card 3/3

Structure of complex compounds containing bidentate sulfito groups. Dokl.AN SSSR 144 no.3:559-561 My '62. (MURA 15:5)

1. Institut obshchey i neorganicheskoy khimii im. N.S.Kurnakova AN SSSR. Predstavleno akademikom I.I.Chernyayevym. (Complex compounds)

KHARITONOV, YU. YA.

Dissertation defended for the degree of Candidate of Chemical Sciences at the Institute of Physical Chemistry in 1962:

"Infrared Absorption Spectra of Complex Compounds of Group VIII Metals with Nitro- and Sulfite-Groups."

Vest. Akad. Nauk SSSH. No. 4, Moscow, 1963, pages 119-145

KHARITONOV, Yu.Ya.; ROZANOV, I.A.; TANANAYEV, I.V.

Infrared absorption spectra of thyocyanate complexes of hafnium (IV). Izv. AN SSSR. Otd.khim. nauk no.4:596-601 Ap 163. (MIRA 16:3)

1. Institut obshchey i neorganicheskoy khimii im. N.S.Kurnakova AN SSSR. (Haffnium compounds—Absorption spectra) (Thiocyanates)

KHARITONOV, Yu.Ya.; NI TSZYA-TSZYAN! [Ni Chia-chien]; BABAYEVA, A.V.

Infrared absorption spectra of "anomalous" nitrile compounds of bivalent platinum with ethylenediamine and methylamine.

Zhur.neorg.knim. 8 no.1:34-42 Ja '63. (MIRA 16:5)

1. Institut obshchey i neorganicheskoy khimii imeni N.S.Kurnakova AN SSSR.
(Platinum compounds-Spectra) (Nitriles)
(Ethylenediamine) (Ethylamine)

g AB

Complex compounds of cobalt (IV) containing a thiosulfate group.

Zhur.neorg.khim. 8 no.3:604-611 Mr '63. (MIFA 16:4)

1. Institut obshchey i neorganicheskoy khimii imeni N.S.Kurrækova AN SSSR. (Cobalt compounds) (Thiosulfates)

KHARITONOV, Yu.Ya.; SHUL'GINA, I.M.; TRAGGEYM, Ye.N.; BABAYEVA, A.V.

Method of coordinating NCS-groups in the complex compounds of uranium (IV) and uranyl. Znur.neorg.khim. 8 no.3:767-768 Mr *63. (MIRA 16:4)

1. Institut obshchey i neorganicheskoy khimii imeni N.S.Kurnakova AN SSSR.

(Uranium compounds—Absorption spectra) (Isothiocyanates)

MARKOV, V.P.; KHARITONOV, Yu.Ya.; ALIKHANOVA, Z.M.

Structure of complex compounds of uranyl with anoins of tartaric, malic, and trihydroxyglutaric acids. Zhur.neorg.khim. 8 no.3:774-775 Mr 163.

(MIRA 16:4)

1. Institut obshchey in neorganichegkoy khimii imeni N.S.Kurnakova AN SSSR.

(Uranyl compounds) (Acids, Organic)

KHARITONOV, Yu.Ya.; ORLOVSKIY, V.P.; TANANAYEV, I.V.

Infrared absorption spectra of chloride and bromide compounds of scandium with ammonia. Zhur.neorg.khim. 8 no.5:1093-1103 My 163. (MIRA 16:5)

 Institut obshchey i neorganicheskoy khimii imeni Kurnakova AN SSSR.
 (Scandium compounds—Absorption spectra) (Ammonia)

RHARITONOV, Yu.Ya.; BUSLAYEV, Yu.A.

Determining the force constant of the U. 0 bond in the U0.2+ion. Opt. i spektr. 14 no.4*586-587 Ap '63. (MIRA 16:6)

(Uranium oxide's) (Chemical bonds)

BABAYEVA, A.V.; KHARITONOV, Yu.Ya.

Concerning Schutte's note. Zhur.neorg.khim. 9 no.1:236-237 Ja '64.

(MIRA 17:2)

1. Institut obshchey i neorganicheskoy khimii imeni Kurnatova AN SSSR.

KHARITOMOV, Yu. Ya.; MOIGDKIN, A. K.; BABAYEVA, A. V.

Infrared absorption spectre of thorium (IV) complexes with thiocyanate groups. Izv AN SSSR Ser Khim no. 4:618-622 Ap '64. (MIRA 17:5)

1. Institut obshchey i neorganicheskoy khimii im. N. S. Kurnakova AN SSSR.

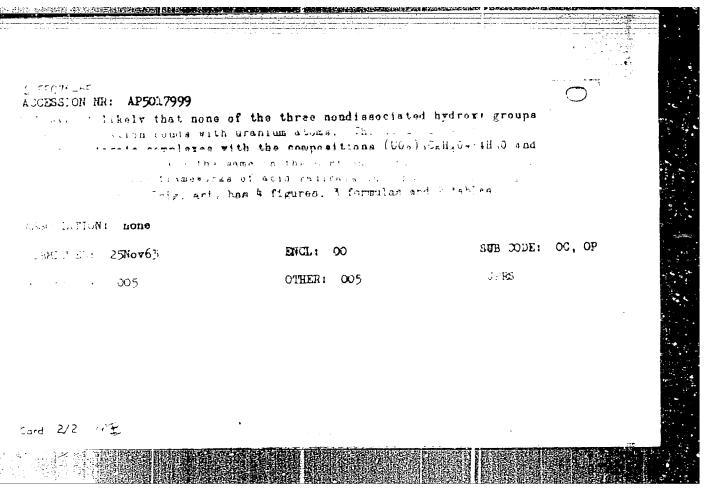
KHARITONOV, Yu.Ya.; BUSHAYEV, Yu.A.

Indrared absorption spectra of exciluorides of some metals.

Inv.AN.BSSR.Ser.khim. no. 5:808-812 My (4. (Mick 1700))

1. Institut obshchey i neorganicheskoy khimii im. N.S.Surnakova
AN SSSR.

1 CKO76 J.C RWT(m)/FWP(J)/T PC-4 RM 170 /03 RK /64 /506 /006 /07 C2 /071 3	
ANTHERS Kharitonov, Vu. Ya.; Alikhanova, Z. M.	
of the state radicals	
SOURCE: Radiokhimiya, v. 6, no. 6, 1964, 702-713	
organouranium compound, IR spectrum, hydroxy carboxylic acid, IR	
Abstract: The infrared absorption spectra (~650-4000 cm ⁻¹) of poly- 	
in the second of the data obtained, it was a second of the second of the data obtained, it was a second of the sec	
the nondisacciated hydroxy group forms a coordination bond with	
the complex with the tribydroxyglutario acid care in the complex with the tribydroxyglutario	Š
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KHARITONOV, Yu.Ya.; ZAYTSEV, L.M.; BOCHKAREV, G.S.; YEVSTAF'YEVA, O.N.

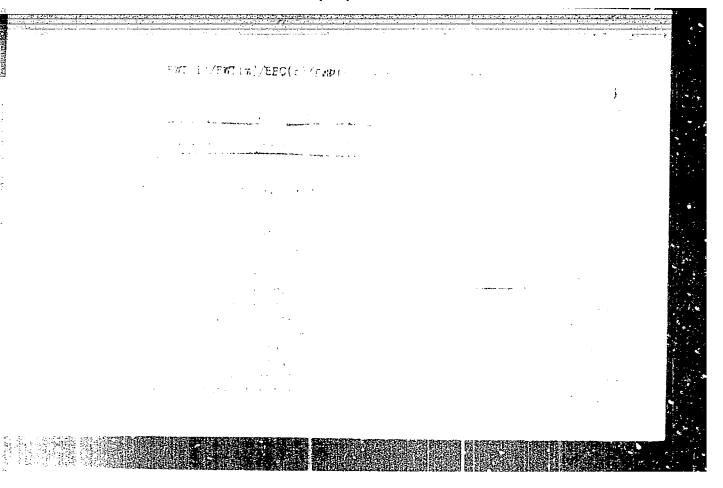
Infrared absorption spectra of the complex compounds of zirconium (IV) with some oxygen-containing ligands. Zhur. neorg. khim. 9 no.7:1617-1623 Jl '64. (MIRA 17:9)

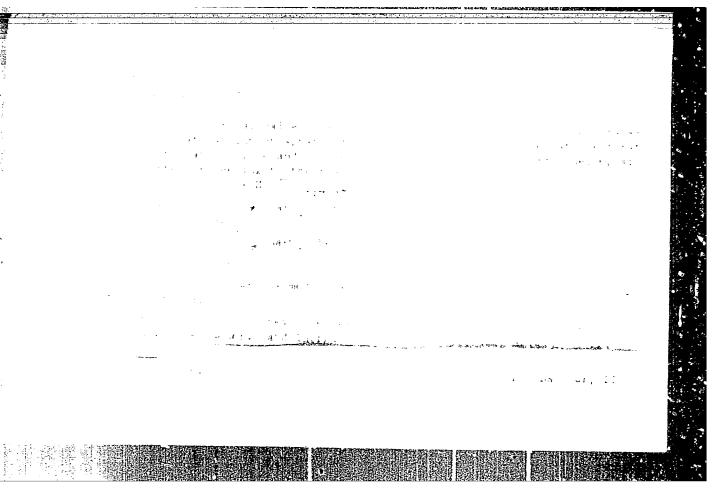
1. Institut obshchey i neorganicheskoy khimii imeni Kurnakova AN SSSR.

KHARITONOV, Yu.Ya.; IKRAMOV, Kh.U.; BABAYEVA, A.V.

Change of vibration frequencies during the coordination and adsorption of nitriles through a nitrogen atom. Dokl. AN SSSR 158 no.6:1412-1415 0 '64. (MIRA 17:12)

l. Institut obshchey i neorganicheskoy khimii im. N.S. Kurnakova AN SSSR. Predstavleno akademikom I.I. Chernyayevym.





KHARITONOV, Yu.Ya.; ATOVMYAN, L.O.

Infrared absorption spectra of complexes. Izv. AN SSSR Ser. khim. no.2:257-261 '65. (MIRA 18:2)

1. Institut obshchey i neorganicheskoy khimii im. N.S. Kurnakova AN SSSR i Institut khimicheskoy fiziki AN SSSR.

KHARITONOV, Yu.Ya.; TSINTSADVE, G.V.; FORAY-MODHERS, M.A.

Nature of the variation of vibration frequencies the coordination bonds are formed by the SCH and SeCH groups. Pokl. AH DESR 160 no.6: 1351-1354 F '65 (MIRA 18:2)

1. Institut obshchey i neorganicheskey khimii im. h.C. Eurnakova AN SSSR. Submitted September 3, 1964.

KHARITONOV, Yu.Ya.; PROKOF'YEVA, I.V.

Infrared absorption spectra and structure of thiourea dioxide.

Dokl. AN SSSR 162 no.4:829-832 Je '65. (MIRA 18:5)

1. Institut obshchey i neorganicheskoy khimii im. N.S.Kurnakova AN SSSR. Submitted November 20, 1964.

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KHARITONOV, Yu.Ya.; ALIKHANOVA, Z.M.

Infrared absorption spectra of some complex compounds of uranyl with some hydroxy acid radicals. Radiokhimin 6 no.6:702-713 164.

(MIRA 18:2)

KHARITONOV, Yu.Ya.; YURANOVA, L.I.; PLYUSHCHEV, V.Ye.; PERVYKH, V.G.

Infrared absorption spectra of zirconium (IV) and haffium (IV) nitrate compounds. Zhur.neorg.khim. 10 no.4:741-744 Ap 165. (MIRA 18:6)

1. Institut obshchey i neorganicheskov vhimii AN SSSR imeni Kurnakova i Moskovskiy institut tonkov khimicheskov tekhnologii imeni Lomonosova.

KHART'IONOV, Yu.Ya.; TSINTSADZE, G.V.; PORAY_KOSHITS, M.A.

Approximate theoretical or (semiempirical) analysis of vibrations of SCN coordination groups. Zhur.neorg.khim. 10 no.4:792-801 Ap 165. (MIRA 18:6)

1. Institut obshchey i neorganicheskcy khimii imeni Kurnakova AN SSSR.

KHARITONOV, Yu.Ya.; DEYCHMAN, E.N.

Infrared absorption spectra of some indium (#1) sulfates and oxalates. Zhur.neorg.khim. 10 no.4:853-860 Ap *65. (MIRA 18:6)

1. Institut obshchev i neorganicheskov khimii imeni Kurnakova AN ${\tt SSSR}_{\bullet}$

KHARITONOV, Yu.Ya.; TERESHIN, G.S.

Infrared absorption spectra of certain ethylenediaminotetraacetate compounds. Zhur. neorg. khim. 10 no.5:1138-1144 My 165.

(MIRA 18:6)

1. Institut obshchey i neorganicheskiy khimii imeni Kurnakova AN SSSR.

KHARITONOV, IN.Ya.; WHINSADZE, G.V.

Approximate analysis of the vibrations of coordinated SeCN.

Groups. Zhor. neorg. khim. 10 no.5:1:91-1199 My '65.

(KEA 18:6)

1. Inavitus distribey i neorganicheskoy khimii imedi Kurnakova
AN SSSE.

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CIA-RDP86-00513R000721820007-4

KHARITONOV, Yu.Ya.; TERESHIN, G.S.

Intrared absorption spectra of sixteen-hydrate ethylenediamine-tetracecuteytriates of calcium ani strontium. Zhur. neorg. khim. 10 no.6:1508-1509 Je '65. (MIRA 18:6)

1. Institut obshchey i neorgalicheskoy khimilimeni Kurnakova AN SSSR.

"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000721820007-4

KHERITOROV, Yu.Ya.; TSINTSADZE, G.V.

Infrared absorption spectra of cortain complexes with 30% and SeCN groups. Thur. neorg. khim. 10 no.1:35-40 Js '65.

(MEA 18:11)

1. Institut obshahey 1 neorganicheskey khimii imeni Eurnakova AN SSSR. Submitted June 26, 1954.

BUSLAYEV, Yu.A., KHERITONOV, Yu.Ya., SINITSYNA, S.M.

Infrared absorption spectra of NbNCI₂, NbO₂F, TaO₂F, Zhur.

neorg. knim. 10 no.2:533-535 F '65. (MIRA 18.11)

1. Institut obshchey 1 neorganicheskoy khimii imeni Kurnakova
AN SSSR. Submitted July 4, 1962.

KHARITONOV, Yu.Ya.; SKOFENKO, V.V.

Infrared absorption spectra of inorganic selenocyanates. Zhur.nerog.khim. 10 no.8:1803-1815 Ag '65.

(MIRA 19:1)

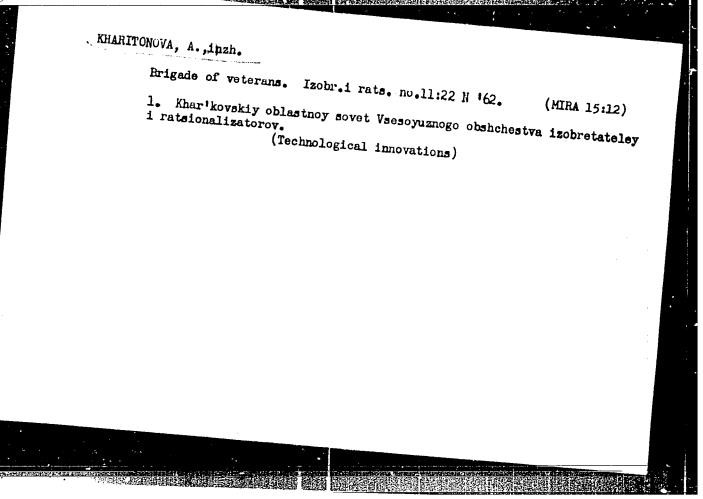
1. Institut obshchey i neorganicheskoy khimii imeni N.S.Kurnakova AN SSSR i Kiyevskiy gosudarstvennyy universitet. Submitted January 21, 1965.

KHARITONOV, Yu.Ya.; IKRAMOV, Kh.U.; BABAYEVA, A.V.

Infrared absorption spectra of nickel (II) compounds with nitriles.

Zhur.neorg.khim. 10 no.11:2424-2435 N '65.1 (MIRA 18:12)

1. Institut obshchey i neorganicheskoy khimii imeni N.S.Kurnakova AN SSSR. Submitted May 5, 1964.



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KHARITONOVA, A.A., master

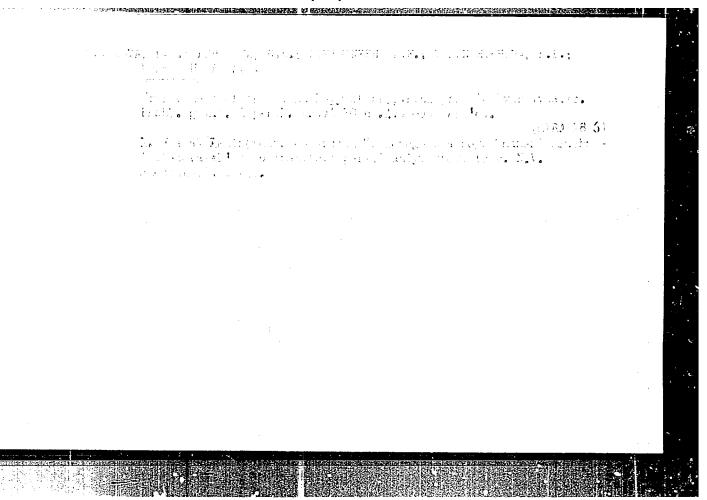
Some remarks concerning the installation of busbars and connection of measuring devices on the dashboards of the control pannel of an electric substation. Energetik 10 no.1:22 Ja 162.

(Electric substations - Electric equipment)

AVERIN, Yuriy Viktorovich, doktor biol. nauk; LOZAN, Mina Nikolayevich; ROZINSKIY, Shmil' Abramovich; KHARITONONA, A.A., red.; PLENTSKOVSKIY, V.L., tekhn. red.

[Harmful rodents in Moldavia and measures for their control]
Vrednyc gryzuny Moldavii i mery bor'by s nimi. Pod red. IU.V.
Averina. Kishinev, Izd-vo "Shtiintsa," 1962. 66 p.
(MIRA 15:10)

(Moldavia--Rodent control)



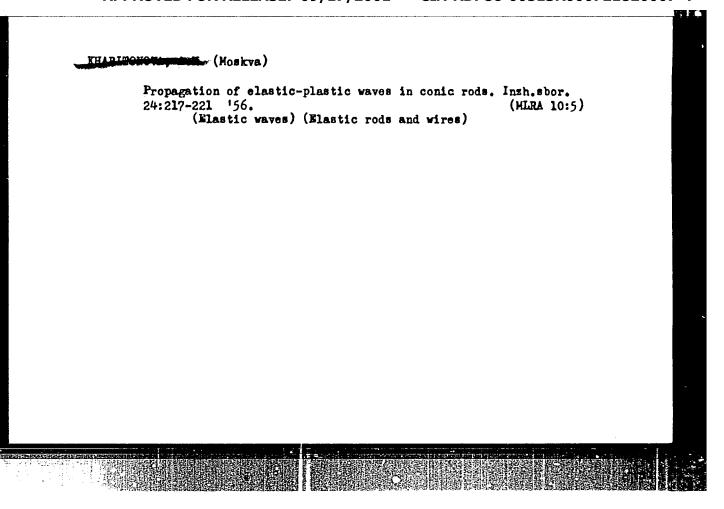
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KARAL'NIK, B.V.; KHARITONOVA, A.I.

Rational method for determining saccharolytic properties of bacteria. Lab. delo 7 no.6:30-32 Je '61. (MIRA 14:7)

l. Karagandinskaya oblastnaya sanitarno-epidemiologicheskaya stantsiya (glavnyy vrach B.F.Sidorenko).

(BACTERIA)



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Fur Ty method for cutting fur pelts. Leg. proc. Lens. 7, 1952

MINESTER OLL, de tie

9. Monthly List of Russian Accessions, Library of Congress, Movember 1957,2Uncl.

USSR / Human and Animal Morphology, Normal and Pathological.
Pathological Anatomy.

Abs Jour : Ref Zhur Biol., No 8, 1958, No 36045

Author : Kharitonova, H. M.

Inst : Not given on Last Proc.

Title : A Comparative Study of Morphological Changes in White Mice

Under the Influence of Tetracycline.

Orig Pub : Antibiotiki, 1956, 1, No. 3, 33-38.

Abstract : Biomycin, terramycin, and a starch solution of tetra-

cycline were injected into white mice per os at different times: the 1st animal group received 14 mg daily in the course of 25, 35 and 60 days; the 2nd group, 1.4 mg daily in the course of 24 and 35 days; and the 3rd group, the starch solution daily. After the antibiotics' injections, fatty generation of the liver made its appearance, particularly when biomycin was used. The interdependence of the

Card 1/2

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KHARITONOVA, A.M.

Morphological changes in the organisms of experimental animals following the administration of antibiotics of tetracycline group by various methods [with summary in English]. Antibiotiki 2 no.4: 46-52 J1-Ag 157. (MIRA 10:11)

1. Otdel eksperimental'noy khimioterapii (zav. - chlen-korrespondent AMN SSSR prof. Kh.Kh.Planel'yes) Instituta farmakologii i khimioterapii AMN SSSR.

(TETRACYCLINE, administration, morphol. reactions to various modes of admin. in animals (Rus))

EMARIPONOVA, A.M., Cond Eed Sci-(dies) "On the texic off ontibiotics of the tetracyclin group of the organization of missis and humans. (Experimental and morphological study)." Les, 1950. 19 pp. (Inst of Whidewichary and hierotickery in ... P. Ormaleyn of the Acad Med Sci USSR), 200 copies (IL,47-50, 126)

KHAKITONOYA, A.M

USSR/PhARPROVED FOR RELEASE in 49/47/2001 Pre614-RDP86-005/13R000721820007

Abs Jour : Ref Zhur - Biol., No 5, 1958, No 23429

: Kivman G.Ia., Kharitonova A.M. Author

: Not Given Inst

: Fatty Dystrophy of the Liver of White Mice Caused by the Title

Oral and Intravenous Administration of Tetracyclins.

Orig Pub: Antibiotics, 1957, 2, No 1, 49-52

Abstract : Chlorotetracyclin (I), tetracyclin (II) and oxytetracyclin (III) were administered orally to mice in daily doses of 1.4 or 14 mg in a starch base and intravenously in daily 0.5 or 1.4 mg doses for 3,5,9 and 11 days. It was found, that only the regeated oral administration of I in a 1.4 mg dose induced fatty dystrophy of the liver; in a 14 mg dose I in-

duced the most intensive fatty dystrophy, II induced small changes, and III very insignificant changes. The intravenous administration of tetracyclines in 1.4 and 0.5 mg doses led to the accumulation of fat in the liver in all cases. In the development of fatty dystrophy of the liver the duration

of the tetracycline administration was less significant, than

the dose and the method of administration.

Dipl. Chemotherapy, Inst Pharmadogy , Chemotherapy AMS USSR Card : 1/1

USSR / Pharmacology, Toxicology. Histamine and Antihistamines.

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Abs Jour: Ref Zhur-Biol., No 18, 1958, 85183.

Author: Popenenkova, Z. A., Kharitonova, A. M.

Inst: Not wiven.

Title : The Influence of Dimedrol on Biochemical and Histochemical Changes in the Adrenals of Rabbits Infec-

ted with Pneumococci.

Orig Pub: Farmakol, i toksikologiya, 1958, Vol 21, No 1, 57-

64.

Abstract: In pneumococcus infection in rabbits, there is a

considerable reduction in the amount of ascorbic acid first in the cortical, and later also in the medullary, layer of the adrenals (Λ), as well as a reduction of adrenalin in them, which the authors

attribute to increased stimulation of the A by

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* onlast card

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PLANEL'YES, Khuan Khuanovich; KHARITONOVA, Aleksandra Markovna; ANTONOV, B.N., red.; GABERLAND, M.I., tekhn. red.

[Side effects in the use of antibiotics for bacterial infections] Pobochnye iavleniia pri antibiotikoterapii bakterial-nykh infektsii. Moskva, Medgiz, 1960. 358 p. (MIRA 15:1) (ANTIBIOTICS)

STRUKOV, A.I.; KHARITONOVA, A.M.

Pathogenesis of fungus infections complicating antibiotic therapy.
Arkh. pat. 22 no. 3:15-21 '60. (MIRA 14:1)

(ANTIBIOTICS) (MEDICAL MYCOLOGY)

KHARITOHOVA, A.M.; GRACHEVA, N.P.

Experimental study of the new anti-timor antibiotic aurentin. Vest. AMN SSSR 17 nc.3:13-23 162. (MIRA 15:4)

1. Institut epidemiologii i mikrobiologii imeni N.F.Gamalei AMN SSSR. (ANTIBIOTICS) (CYTOTOXIC DRUCS)

GRACHEVA, N.P.; AKOP'YANIS, S.S.; KHARITONOVA, A.M.

Effectiveness of peroral administration of aurantin in the treatment of Ehrlich's carcinoma. Antibiotiki 8 no.2:154-158 F'63. (MIRA 16'7)

1. Otdel infektsionnoy patologii i eksperimental'noy terapii infektsiy (zav. - chlen-korrespondent AMN SSSR prof. Kh.Kh. Planel'yes) Instituta epidemiologii i mikrobiologii imeni N.F.Gamalei AMN SSSR i otdeleniye khimioterapii onkologicheskoy bol'nitsy no.62 (glavnyy vrach V.D. Margolin) Mcskvy. (CANCER) (AURANTIN)

KHARITONOVA, A.M.

Effect of aurantin on the endocrine system. Antibiotiki 8 no.2: 119-126 F'63. (MIRA 16:7)

1. Otdel infektsionnoy patologii i eksperimental'noy terapii infektsiy (zav. - chlen-korrespondent AMN SSSR Kh.Kh.Planel'yes) Instituta epidemiologii i mikrobiologii imeni N.F.Gamalei AMN SSSR.

(AURANTIN) (ENDOCRINOLOGY)

GRACHEVA, N.P.; KHARITONOVA, A.M.

1

Effect of aurantin on Brown-Pearce carcinoma in rabbits. Antibiotiki 8 no.3:268-273 Mr*63 (MIRA 17:4)

1. Otdel infektsionnoy patologii i eksperimental'noy terapii infektsiy (zav. - chlen-korrespondent AMN SSSR prof. Kh. Kh. Planel'yes) Instituta epidemiologii i mikrobiologii imeni N.F. Gamalei AMN SSSR.

GRACHEVA, N. P.; KHARITONOVA, A.M.; AKOPYANTS, S. S.

"Effect of aurantin on epithelial tumors in animals and numans."

report submitted for Antibiotics Cong, Prague, 15-1, Jun 64.

Dept of Infectious Pathology & Experimental Therapy, Inst of Epidemiology & Microbiology, AMS USSR.

PLANEL YES, Khuan Khuanovich; KHARITONOVA, Aleksandra Mikhaylovna; GRISHKEVICH, E.V., red.

[Side effects in the antibiotic therapy of bacterial infections] Polochmye iavleniia pri antibiotikoterapii bakterial'nykh infektsii. Izd.2., perer. i dop. Moskva, Meditsina, 1965. 429 p. (MIRA 18:6)

GUSEYN-ZADE, M.I.; KHARITONOVA, A.N.

Determination of the deformation of a telescope mirror by elasticity theory methods. Izv.GAO 23 no.2:159-166 '63. (MIRA 16:12)

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